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APPLICATION NO. FILING DATE		TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/608,587 06/27/2003		06/27/2003	James M. Sweet	D/A2555	8422	
25453	7590	08/03/2006		EXAMINER		
PATENT I XEROX CO		ENTATION CENT	HILLERY, NATHAN			
		, SOUTH, XEROX S	ART UNIT	PAPER NUMBER		
ROCHESTI	ER, NY	14644	2176			
				DATE MAIL ED: 08/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Α	pplication No.		Applicant(s)					
Office Action Summary			0/608,587		SWEET ET AL.					
			xaminer		Art Unit					
		N	athan Hillery		2176					
Period fo	The MAILING DATE of this commun or Reply	ication appear	rs on the cove	sheet with the c	orrespondence ad	ddress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)	Responsive to communication(s) file	ed on <i>07 June</i>	2006.							
•	•		tion is non-fin	al.						
7—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is									
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
4)⊠ Claim(s) <u>1-37</u> is/are pending in the application.										
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.										
6)⊠ Claim(s) <u>1-37</u> is/are rejected.										
7)	Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.										
Applicati	on Papers									
9)	The specification is objected to by th	e Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11)	The oath or declaration is objected t	o by the Exam	niner. Note the	e attached Office	Action or form P	TO-152.				
Priority ι	ınder 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Attachmen			۸ □	Interview Summary	(PTO_413)					
2) Notice 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		5) [Paper No(s)/Mail D		⁻ O-152)				

Art Unit: 2176

DETAILED ACTION

1. This action is responsive to communications: RCE filed on 06/07/06.

- 2. Claims 1 37 are pending in the case. Claims 1, 16 and 27 are independent.
- 3. The rejection of claims under 35 U.S.C. 112, second paragraph as being indefinite has been withdrawn as necessitated by amendment.
- 4. The rejection of claims under 35 U.S.C. 101 as being nonstatutory has been maintained.
- 5. The rejection of claims under 35 U.S.C. 103(a) as being unpatentable has been maintained.

Continued Examination Under 37 CFR 1.114

6. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/7/06 has been entered.

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Art Unit: 2176

8. Claims 1 – 37 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1 – 37 have no practical application of a judicial exception as claimed because there is no physical transformation and no production of a concrete, useful and tangible result.

- a. The claimed invention remains in the abstract and nothing is made available to the user; thus it does not produce a tangible result.
- b. The claims appear to be in the preliminary stages and fall short of the disclosed practical utility. In other words, the claims fail to fulfill and/or reflect the specific, substantial, and credible utility sought by the disclosed invention, and thus do not produce a useful result.
- 9. Consequently, the claims are nonstatutory. The claims simply recite methodologies for assembling and grouping data without producing a concrete, useful, and tangible result.
- 10. Further, to expedite a complete examination of the instant application the claims rejected under 35 U.S.C. 101 (nonstatutory) above are further rejected as set forth below in anticipation of applicant amending these claims to make them statutory.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 12. Claims 1 6, 10 13, 16 20, 25 31, 36, and 37 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Bharat et al. (6112203) and further in view of Earl (5924104).
- 13. Regarding independent claim 27, Bharat et al. teach that we locate pages that point to at least one of the pages in the start set 201. We call this set of pages the back set 202 (Column 4, line 61 Column 5, line 20), which meets the limitation of performing a page-level link analysis that identifies those hyperlinks on a page linking to a candidate document page.

Bharat et al. teach that if a link points to a page that is represented by a node in the graph, and both pages are on different servers, then a corresponding edge 213 is added to the graph 211. Nodes representing pages on the same server are not linked. This prevents a single Web site with many self-referencing pages to unduly influence the outcome (Column 4, line 61 – Column 5, line 20), which meets the limitation of identifying possible progression links; identifying possible table of content links; and examining the possible progression links and the possible table of content links for common characteristics, since the specification states that "the possible progression links 230 and possible table of content links 240 are passed to module 250 for a final examination to weed out links which have properties that are not characteristic of typical intra-document links, e.g. they point to a different web server" (p 7, lines 26 – 30). It should be noted that pages on the same server are nodes and are thus still apart of the resulting graph.

Furthermore, it should be noted that the self-referencing pages of Bharat et al. are equivalent to intra-document links and that those intra-document links can be "possible" progression and/or table of contents links, since the Office has interpreted the word "possible" as "could be" and within the broadest, reasonable interpretation in light of the specification, which states that a link analysis phase consists of the identification for a given hypertext page of the most likely desirable intra-document links. Those intra-document links fall into two categories: progression links and table of contents links (p 5, second paragraph). Thus, any intra-document link – a link that points to a different web server – could be a possible progression or table of contents link.

Bharat et al. teach that a larger n-graph 211 can be constructed by repeating this process for the back and forward sets 202-203 to add more indirectly linked pages (Column 4, line 61 – Column 5, line 20), which meets the limitation of performing a recursive application of the page-level link analysis to the linked candidate document page and any further nested candidate document pages thereby identified, until a collective set of identified candidate document pages is assembled.

Bharat et al. do not explicitly teach performing a document-level analysis that examines the collective set of identified candidate document pages for grouping into one or more documents; examining the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links, to provide a resultant set of identified candidate document pages; and grouping the content found in the

resultant set of candidate document pages into a document representation for subsequent viewing or printing of the given hyperdocument.

Earl teaches that the link display manager 300 includes a display system for defining predetermined screen element properties providing visual cues for distinguishing the identified links 202 and 204. When a user provides an input link selection to select a new document, the document parser 304 parses the selected new document to identify intradocument links 202 and interdocument links 204 (Column 2, line 59 – Column 3, line 9), which meets the limitation of examining the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of intra-document links, to provide a resultant set of identified candidate document pages.

Earl teaches that the display system 306 processes the identified intradocument links 202 and interdocument links 204 for displaying distinctively the intradocument links 202 and interdocument links 204 with predetermined visual cues to differentiate the links 202, 204 (Column 2, line 59 – Column 3, line 9), which meets the limitation of grouping the resultant set of candidate document pages into a document representation for subsequent viewing or printing of the given hyperdocument.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Bharat et al. with that of Earl because such a combination would provide the users of Bharat et al. with an improved method and apparatus for displaying links on a user display interface in a computer system (Column 1, lines 39 – 41).

Application/Control Number: 10/608,587

Art Unit: 2176

14. Regarding dependent claims 28 – 31, Bharat et al. teach that the nodes in the start set are first scored according to their connectivity, and the number of terms of the query that appear as unique sub-strings in the URL of the represented documents. The score is a weighted sum of the number of directed edges to and from a node and the number of unique sub-strings of the URL that match a query term (Column 3, lines 10 – 15), which meet the limitation of the page-level link analysis includes examination of contextual clues, the contextual clue is a particular class of content item associated with the hyperlink, the class of content item is a class of text, the class of text is a directional word or phrase.

Page 7

15. Regarding dependent claims 36 and 37, Bharat et al. teach that we assign a similarity weight to each node 213 of the sub-graph 255. Various document similarity measuring techniques have been developed in Information Retrieval to determine the goodness of fit between a "target" document and a collection of documents. These techniques typically measure a similarity score based on word frequencies in the collection and a target document (Column 6, lines 51 – 57), which meet the limitation of the page-level analysis includes determining the similarity of the hyperlink destination to that of other hyperlinks within the page, and the page-level analysis includes determining the similarity of the hyperlink destination to the location of the current page.

Art Unit: 2176

16. **Regarding claims 1 – 6 and 10 – 13**, the claims incorporate substantially similar subject matter as claims 27 – 31, 36 and 37 and are rejected along the same rationale.

- 17. **Regarding claims 16 20, 25 and 26**, the claims incorporate substantially similar subject matter as claims 27 31, 36 and 37 and are rejected along the same rationale.
- 18. Claims 7 9, 14, 15, 21 24, and 32 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharat et al. (US 6112203 A) and Earl (5924104) as applied to claims 1 6, 10 13, 16 20, 25 31, 36, and 37 above, and further in view of Prince (US 6877002 B2).
- 19. Regarding dependent claims 32 35, neither Bharat et al. nor Earl explicitly teach the class of content item is a class of image, the class of image is an image containing a directional symbol, a textual clue is obtained for the image, the identifying of table of content links includes the presence of at least one other hyperlink nearby with the page description.

However, Prince teaches that the parsed results (from step 42 in FIG. 4) relating to the media are passed to extraction agent 68 via an extraction queue 67. The extraction queue 67 comprises URLs to be analyzed with respect to associated media metadata. The extraction queue 67 may comprise metadata queue entries such as media URLs, Web page URLs, Web page titles, Web page keywords, Web page descriptions, media title, media author, and media genre. Each queue entry added to the extraction queue is assigned a processing time and a priority (Column 7, lines 23 –

37), meets the limitation of the class of content item is a class of image, the class of image is an image containing a directional symbol, a textual clue is obtained for the image, the identifying of table of content links includes the presence of at least one other hyperlink nearby with the page description.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the combined invention of Bharat et al. and Earl with that of Prince because such a combination would allow the users of Bharat et al. and Earl the benefit of A method for querying metadata associated with media on a computer network includes separating the metadata into keywords (Column 2, lines 37 – 39).

- 20. Regarding claims 7 9, 14 and 21 24, the claims incorporate substantially similar subject matter as claims 32 35 and are rejected along the same rationale.
- 21. Regarding claim 15, Bharat et al. teach that we assign a similarity weight to each node 213 of the sub-graph 255. Various document similarity measuring techniques have been developed in Information Retrieval to determine the goodness of fit between a "target" document and a collection of documents. These techniques typically measure a similarity score based on word frequencies in the collection and a target document (Column 6, lines 51 57), which meet the limitation of the page-level analysis includes determining the similarity of the hyperlink destination to that of other hyperlinks within the page.

Art Unit: 2176

Response to Arguments

22. Applicant's arguments filed 6/07/06 have been fully considered but they are not persuasive.

23. Applicant argues that claims 1 – 37 are statutory because documents are items of manufacture.

The Office disagrees.

It should be noted that claims 1 – 37 are methodologies for assembling and grouping data presumably in a computer, since the documents claimed are hyperdocuments and the methodologies claimed are directed towards identifying the hyperlinks therein. Thus, in this case the claimed documents are simply abstract ideas. However, "while abstract ideas, natural phenomena, and laws of nature are not eligible for patenting, methods and products employing abstract ideas, natural phenomena, and laws of nature to perform a real-world function may well be" (Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility, p 17, last paragraph). Thus, the claimed inventions are potentially a Practical Application of a § 101 Judicial Exception. The complete analysis of the claims under this category has been explained in the rejection of the claims under 35 USC 101 above.

24. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links)

are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

25. In response to Applicant's argument that Bharat does not teach "examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links" (p 10, last two paragraphs), it should be noted that Bharat was not relied upon to explicitly teach such a limitation. Furthermore, Applicant simply alleges that Earl does not teach "examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links" (p 11, second paragraph).

The Office disagrees.

As stated above, Earl explicitly teaches that the link display manager includes a display system for defining predetermined screen element properties providing visual cues for distinguishing the identified intradocument links and interdocument links (Column 2, line 59 – Column 3, line 9). The Office has interpreted the identifying and distinguishing of Earl to meet the claimed limitation of "examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links", since Encarta defines weed out as to separate out something undesirable (http://encarta.msn.com/). Within the broadest,

reasonable interpretation, distinguishing intradocument links and interdocument links distinctively has been interpreted to read on weeding out.

26. Again, Applicant simply alleges that Bharat provides no teaching directed to identifying possible "table of content" links (p 11, first paragraph). It should be noted that Applicant's arguments amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

The Office disagrees.

The specification states that "the possible progression links 230 and possible table of content links 240 are passed to module 250 for a final examination to weed out links which have properties that are not characteristic of typical intra-document links, e.g. they point to a different web server" (p 7, lines 26 – 30). Furthermore, it should be noted that the self-referencing pages of Bharat et al. are equivalent to intra-document links and that those intra-document links can be "possible" progression and/or table of contents links, since the Office has interpreted the word "possible" as "could be" and within the broadest, reasonable interpretation in light of the specification, which states that a link analysis phase consists of the identification for a given hypertext page of the most likely desirable intra-document links. Those intra-document links fall into two categories: progression links and table of contents links (p 5, second paragraph). Thus, any intra-document link – a link that points to a different web server – could be a possible progression or table of contents link.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Hillery whose telephone number is (571) 272-4091. The examiner can normally be reached on M - F, 10:30 a.m. - 7:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather R. Herndon can be reached on (571) 272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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